TKN Micro-Kjeldahl Digestion and Distillation **Page 1 of 1**
SM 18th, 19th, 20th Ed. 4500-N_{org} C

Facility Name:_____VELAP ID_____

Assessor Name:_____Analyst Name:_____Inspection Date_____

Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst:_____ Sample ID: _____ Date of Sample Preparation:_____ Date of Analysis:_____					
Are sample volumes selected according to the expected organic nitrogen in samples? (4-40 mg/L= 50 mL sample, 8-80 mg/L=25 mL sample, 20-200 mg/L=10 mL sample, and 40-400 mg/L=5 mL sample.)	4500-N_{org} C.4.a				
Is ammonia removal performed by adding 3 mL borate buffer, then adding 6N sodium hydroxide until pH 9.5, and then boiling? (Not required if ammonia is separately determined and subtracted from final results.)	4500-N_{org} C.4.b				
Are wet portions of sludge or sediment samples used for kjeldahl nitrogen determination? (Do not dry before taking an aliquot.)	4500-N_{org} C.4.a				
For Digestion:					
Are boiling beads or chips added to each flask, and is each one mixed?	4500-N_{org} C.4.c				
Are samples boiled briskly at the medium heat setting until volume is greatly reduced and copious white fumes are observed?	4500-N_{org} C.4.c				
After fumes are observed, are samples digested for an additional 30 minutes at the maximum heat setting?	4500-N_{org} C.4.c				
Following digestion, are samples cooled, diluted to no more than 30 mL with deionized water, and mixed?	4500-N_{org} C.4.c				
For Distillation:					
Is 10 mL hydroxide-thiosulfate reagent added to each sample?	4500-N_{org} C.4.d				
Are samples distilled with the vertical condenser's outlet tip submerged below the surface of the receiving acid solution? *(Distillation not required if using block digestion per CFR 136.3.)*	4500-N_{org} C.4.d				
Is 30-40 mL of distillate collected in 10 mL of boric acid? Collect distillate in the following solutions for the specified determinative method: plain boric acid solution for nesslerization; indicating boric acid solution for titrimetric method; 10 mL 0.04N H_2SO_4 for phenate or electrode methods.	4500-N_{org} C.4.d				
Notes/Comments:					